

Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
Department of Energy Resources
RENEWABLE ENERGY PORTFOLIO STANDARD (RPS), CLASS I
RPS CLASS I
STATEMENT OF QUALIFICATION APPLICATION (SQA)

FEBRUARY 16, 2010, EDITION*

Pursuant to the Renewable Energy Portfolio Standard - Class I Regulation at 225 CMR 14.00

INSTRUCTIONS

AUTHORITY

The RPS Class I Statement of Qualification Application implements the RPS Class I Regulation, 225 CMR 14.00. The Statement of Qualification Application form and instructions constitute a portion of the RPS Guidelines, as “Guidelines” is defined in 225 CMR 14.02.

APPLICATION EDITION

Please be certain that you are using the most current, Web-based version of the Statement of Qualification Application (“SQA”) form and instructions posted at the RPS section of the DOER web site, accessible via <http://www.mass.gov/doer/>. **NOTE, however, that, as of February 17, 2010, DOER requires that you complete your SQA directly on the Web (<http://rps-aps.ene.state.ma.us/>) rather than using this hard copy form. DOER will not accept this hard copy form without prior approval of its use by the RPS Program Manager.**

GENERAL INSTRUCTIONS & NOTICES

- If you find that information required does not fit into the space provided in the SQA form, you may provide the information in an attachment and *reference* that attachment in the space provided in the form.
- If you submit attachments, please send them by email if possible. On each attachment clearly indicate the name of the Generation Unit and the SQA subsection and item to which the attached information pertains.
- Please enter the name of the Generation Unit on every submitted page of the hard copy SQA (done automatically in the Web SQA), as well as on any letter or other document separately submitted to DOER.
- “Department” and “DOER” refer to the Massachusetts Department of Energy Resources.” MassDEP” refers to the Massachusetts Department of Environmental Protection.
- All capitalized terms are defined either in 225 CMR 14.00, or in the NEPOOL GIS Operating Rules (available via www.nepoolgis.com), or within the Application form itself.
- All information submitted in or attached to the Application, including all correspondence and all information submitted after the original filing of the Application, is considered to be a public record.
- Keep a copy of the completed Application, including all appendices and attachments, for your records.
- The Department will notify the Contact Person if the Application is incomplete, and the Department may require additional information and documentation that it deems necessary.
- Once the Department finds the Application to be administratively complete, it will notify the applicant, and it may post this finding at the RPS section of the DOER web site, <http://www.mass.gov/doer/>.
- Pursuant to 225 CMR 14.06(3)(c), the Department will provide written notice to the Authorized Representative if the Generation Unit does not meet the requirements for eligibility as an RPS Class I Renewable Generation Unit.
- The Department will post notice of all approved Applications at the RPS section of its web site.

SOLAR CARVE-OUT AND OTHER TECHNOLOGIES/RESOURCES/FUELS

Applicants for photovoltaic units as Solar Carve-Out Renewable Generation Units, as well as applicants for all other fuel/resource/technology types, are advised to complete and submit **only** those pages of Section III that pertain to their particular type of Unit and to omit all other pages of Section III.

APPENDICES

There are seven appendices to the Application, lettered A through D and F through H. You **must** complete all applicable appendices. Please submit **only** those appendices that **do** apply, **omitting all others**. On page 2 of the hard-copy Application (Section I.5), indicate which Appendices are included with the Application; this item is not included in the Web SQA.

CAPACITY OBLIGATION

With one new exception, the generation capacity of **all** Generation Units that use this Application and receive a Statement of Qualification under the RPS Class I regulations are required to comply with the applicable Capacity Obligation provisions in 225 CMR 14.05(1)(e). The only exception is for Units that are registered as “net metering facilities” pursuant to the net metering provision of 220 CMR 18.00 (including all Solar Carve-Out Units), as indicated at Section II.8 of this Application. All **other** Applicants must read and complete Appendix A.

AUTHORIZED SIGNATURE

The Application shall be certified in Section IV by the signature of the Authorized Representative of the Applicant as to the veracity of all statements of fact therein, including all appendices and attachments. Such signature also signifies that the Applicant has read and understands the certification required pursuant to 225 CMR 14.10(1)(c).

If the Applicant and/or the Authorized Representative is *not* the Owner or Operator of the Generation Unit, then the Application must include documentation satisfactory to the Department that the Authorized Representative has been authorized to represent the Owner or Operator and to certify the Application. At a minimum, such documentation must include the Certification of the Authorized Representative required in Section IV of the Application identifying both the name and the entity of the Authorized Representative; however, if that Certification identifies only the authorized entity, then that authorized entity must, in turn, provide a Certification of the individual named as its Authorized Representative.

PUBLIC COMMENTS

Pursuant to 225 CMR 14.06(2)(b), the Department may, at its sole discretion, post a copy of a Statement of Qualification Application (or any information from an SQA) at its web site and provide a period of appropriate duration for public comments on a Statement of Qualification Application. During this period, the public may comment on the pending Application by e-mail. Please note that this procedure for public comment is *not* subject to the Massachusetts Administrative Procedures Act (M.G.L. c. 30A).

APPLICATION SUBMISSION

Please send the completed Application, including *all* required appendices and attachments, to the following address:

Department of Energy Resources
100 Cambridge Street, Suite 1020
Boston, Massachusetts 02114
Attn: RPS Class I Statement of Qualification Mailbox

QUESTIONS

Questions related to the Statement of Qualification Application should be directed to the RPS Program Manager at DOER.RPS@state.ma.us or at (617) 626-7355.

All Solar Carve-Out and PV related questions should be directed to DOER.SREC@state.ma.us.

***CHANGES FROM THE 3/4/09 TO THE 1/15/10 EDITION OF THE SQA:**

This edition incorporates a new section for the Solar Carve-Out (at III.1a). In addition the lettering of the Appendices has been changed (see I.5). Finally, the following sub-sections have been changed: Instructions; I.2-3; II.2-4, 7, 9; III.1a (new); III.1b; III.8.c, e, f; Appendix A.1; Appendix D; and Appendix F.

DOER Use Only

Date Received: _____

Date Complete: _____

Date Approved: _____

Generation Unit Name

Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
Department of Energy Resources

RENEWABLE ENERGY PORTFOLIO STANDARD (RPS), CLASS I

RPS CLASS I

STATEMENT OF QUALIFICATION APPLICATION

FEBRUARY 16, 2010, EDITION

Pursuant to the Renewable Energy Portfolio Standard - Class I Regulation at 225 CMR 14.00

SECTION I. APPLICANT INFORMATION & APPENDIX CHECKLIST

Complete all five subsections in Section. Enter "same as X" wherever applicable in subsections 1-4.

1. Applicant and Contact Person

- Name of the entity that is *applying* for a Statement of Qualification for the Generation Unit

- Contact person's name _____
- Title _____
 - E-mail address _____
 - Telephone number _____
 - Mobile phone number [optional] _____
 - FAX number _____
- Postal address _____
- Applying entity's webpage URL, if any _____
- Organization type [*corp., coop, partnership, individual, etc.*] _____

2. Authorized Representative of the Generation Unit Owner or Operator

- Name of the entity at which the Authorized Representative is employed or otherwise affiliated

- Authorized Representative's name _____
 - Title _____
 - E-mail address _____
 - Telephone number _____
 - FAX number _____
- Postal address _____
- This entity's webpage URL, if any _____
- Organization type [*corp., coop, partnership, individual, etc.*] _____

3. Generation Unit Owner

- Name of the entity that *owns* the Generation Unit _____

- Contact person's name _____
 - Title _____
 - E-mail address _____
 - Telephone number _____
 - FAX number _____
- Postal address _____

- Owning entity's webpage URL, if any _____
- Organization type [*corp., coop, partnership, individual, etc.*] _____

4. Generation Unit Operator

- Name of the entity that *operates* the Generation Unit _____

- Contact person's name _____
 - Title _____
 - E-mail address _____
 - Telephone number _____
 - FAX number _____
- Postal address _____

- Operating entity's webpage URL, if any _____
- Organization type [*corp., coop, partnership, individual, etc.*] _____

5. Appendices [Check those that are included with this Application]

- ☐ **A.** Capacity Obligation [*formerly Appendix B*]
- ☐ **B.** Co-firing and Blended Fuels Waiver [*formerly Appendix C*]
- ☐ **C.** Special Provisions for a Generation Unit Located in a Control Area adjacent to the ISO-NE Control Area [*formerly Appendix D*]
- ☐ **D.** Special Provisions for Generation Units Whose Output Is *NOT* Monitored & Reported by ISO-NE, Including All Aggregations, All Behind-the-Meter & Off-grid Units, and Some Others [*formerly Appendix F*]
- ☐ **E.** [*RESERVED*]
- ☐ **F.** Special Provisions for Incremental Generation and for Relocated, Repowered, and Replacement Generation Units [*formerly Appendix A*]
- ☐ **G.** Certification of Authorized Representative When the Owner or Operator is an Individual
- ☐ **H.** Certification of Authorized Representative when the Owner or Operator is a Non-Corporate Entity Other Than an Individual

SECTION II. GENERATION UNIT INFORMATION

Complete all eight numbered items in Section II.

1. Identification of the Generation Unit

Name: _____

Unit ID – Complete all or state if the information is pending, not yet applied for, or not applicable.

NEPOOL GIS Generation Unit Asset ID#: _____

NEPOOL GIS Plant – Unit Name: _____

NEPOOL GIS account holder: _____

Webpage URL of the Generation Unit (if any): _____

Nameplate Capacity of the Generation Unit: _____ MW

[For an Aggregation, enter the total capacity of all Units. For a PV array, use DC.]

2. Renewable Fuel, Energy Resource, or Technology of the Generation Unit

Check **only one** box, and complete the corresponding section within Section III.

- ☐ MA Solar Carve-Out *[only for post-2007 PV units that meet the criteria in Section III.1a]*
- ☐ Solar photovoltaic *[unless applying for the MA Solar Carve-Out]*
- ☐ Solar thermal electric energy
- ☐ Wind energy
- ☐ Geothermal electric
- ☐ Landfill methane gas
- ☐ Marine or Hydrokinetic (including Ocean Thermal), but not Hydroelectric¹
- ☐ Fuel cells using an Eligible RPS Class I Renewable Fuel
- ☐ Hydroelectric energy
- ☐ Biomass, using a low-emission, advanced biomass power conversion technology

3. Commercial Operation Date of the Generation Unit at its current or planned location

Commercial Operation Date of the Unit: _____ *[For an Aggregation, use the date of the oldest Unit. For Solar Carve-Out and other PV Units, use the Interconnection approval date.]*

If the Date is on or before December 31, 1997, then you must complete Appendix F.

For the Solar Carve-Out, this date cannot be earlier than January 1, 2008.

Was the Unit's **Power Conversion Technology** used on or before December 31, 1997?

- ☐ Yes, at this location – *If you check this box, then complete Appendix F.*
- ☐ Yes, but at a different location – *If you check this box, then complete Appendix F.*
- ☐ No, the Unit's Power Conversion Technology was not used before December 31, 1997 – neither at this location nor at any other location.

4. Control Area Location of the Generation Unit

☐ In the ISO-NE Control Area, in the following state: _____

☐ In the following adjacent Control Area:

☐ NY ISO or ☐ Québec or ☐ New Brunswick, in the following state or province: _____

If you check the box for an adjacent Control Area, complete Appendix C.

¹ If you are uncertain as to whether this facility should be regarded as using Hydroelectric Energy or as using Hydrokinetic Energy, contact the RPS Program Manager before proceeding.

Name of the Generation Unit

5. Street Address and Navigational Coordinates of the Generation Unit

- a. **Street address** of the Unit [number, road, municipality/township, county, state/province, zip/postal code] [For an Aggregation, omit this and see the instruction at II.7, below]:

- b. **Navigational coordinates** – Enter latitude & longitude. _____ N, _____ W
[This information may be omitted for multi-municipality Aggregations.]

- c. **Prior use of the site:**

Is this location a site where electricity was generated on or before December 31, 1997?

- ☐ Yes, and that electricity was generated using the following fuel, energy resource, or technology: _____

If you check **Yes**, **and** the fuel, energy resource, or technology is the **same** as the one at item 2 in this Section (above), then complete the appropriate section(s) of **Appendix F**.

- ☐ No

6. Metering of the Generation Unit

How will the electricity output of the Unit be reported to the NEPOOL GIS?

- ☐ By the ISO-NE, since **either** (a) the Unit's output is monitored by ISO-NE (for "MSS" Units at the NEPOOL GIS), **or** (b) the Unit is located outside of the ISO-NE Control Area, and its imported output is monitored by ISO-NE at the output's point of entry into the ISO-NE Control Area (for "IMP" Units at the NEPOOL GIS).
- ☐ By means of by an independent Third Party Meter Reader (a.k.a. Independent Verifier), as defined in Rule 2.5(j) of the NEPOOL GIS Operating Rules, or any successor rule, and approved by the Department (for "NON" Units at the NEPOOL GIS). **If you check this box, you must complete section 2 of Appendix D unless the Unit qualifies as a MA Solar Carve-Out Generation Unit (or an Aggregation of such Units). Note that the Independent Verifier for all Solar Carve-Out Units is the MA Clean Energy Center's Production Tracking System (PTS).**

7. Aggregations

Does this Application cover more than one Generation Unit in a single state in ISO-NE, all of which Units share the same fuel, technology, or resource, and all of which are either located behind the meter of retail electricity customers or are Off-grid Generation Units?

- ☐ No
- ☐ Yes – If you check this box, complete **Appendix D** (but see II.6, above).

If you answered **Yes**, then in the table required at the 1st bullet of Appendix D.1, also provide the dates for item II.3 and the address information for item II.5.a of this Section (above). **However, if the Aggregation is for Solar Carve-Out systems, follow the instructions at Section III.1a, below.**

8. Capacity Obligation of the Generation Unit

Is the Unit or Aggregation applying for the Solar Carve-Out (at II.2), **OR** is the Unit registered with the local utility as a Net Metering Facility pursuant to 220 CMR 18.00?

- ☐ Yes
- ☐ No

If you answered **No**, then you must complete **Appendix A**, pertaining to Capacity Obligation, as provided in 225 CMR 14.05(1)(e). **ACKNOWLEDGE** that you have completed and understand **Appendix A** by checking both of the following boxes.

- ☐ I have read, and I understand, both sections of **Appendix A**.
- ☐ I have completed the applicable section(s) of **Appendix A**.

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

Check only one of the numbered boxes in Section III. Under that one selected box, answer all questions, and provide all information that pertains to your answers.

Submit only the page(s) of Section III that pertain to the Generation Unit. Omit the other pages of III.

1a. ☐ Solar Carve-Out

This sub-section is to be used ONLY for a solar PV system (“Unit”) with a nameplate capacity of no more than 2 MW (DC) that is installed after 12/31/07 in Massachusetts, that serves some on-site load (including parasitic load), that is interconnected with the electric grid in MA, and that has not received certain forms of financial assistance listed below (see the RPS Class I Regulation in 225 CMR 14.05(4) for detailed eligibility requirements). This sub-section is also for an Aggregation of PV systems, every one of which individually meets the criteria described above.

Statutory Eligibility Criteria:

*Answer each of the following for the PV Unit **or** for all of the Units in an Aggregation. Later you will provide details in a linked spreadsheet, as instructed at the end of this sub-section.*

Does the Unit (or each of the individual Units in the Aggregation) have a capacity that is **not more than 2 MW (DC)**?

- ☐ Yes.
☐ No,

Is the Unit (or Are all Units in the Aggregation) located in Massachusetts?

- ☐ Yes.
☐ No,

Is the Unit (or Are all Units in the Aggregation) interconnected to the electricity grid in Massachusetts?

- ☐ Yes.
☐ No,

Is the Unit (or each and every one of the Units in the Aggregation) wired to provide at least some of its electrical output to one or more loads (including parasitic loads) that are “behind” the meter where the Unit is interconnected to the electricity grid? *Examples of such behind-the-meter loads are the following: host building, electrical equipment, outdoor lighting, etc.*

- ☐ Yes.
☐ No,

If you answered NO to any of the questions above, then the Unit is NOT eligible for the Solar Carve-Out. If this application is for an individual Unit, you should go back to Section II.2, select “Solar Photovoltaic,” and complete Section III.1b.1 If this application is for an Aggregation, then you should remove from the Aggregation any Units for which the answer to any of the above is NO.

, Financial Assistance Criteria:

For each of the following sources, indicate whether or not you accepted funding to assist in the installation of this Generation Unit:

- No ☐ Yes ☐ MRET/DOER Commonwealth Solar I rebate
No ☐ Yes ☐ MRET Commercial, Industrial, Institutional Initiative (CIII)
No ☐ Yes ☐ MRET Green Affordable Housing Initiative (GAHI)
No ☐ Yes ☐ MRET Green Buildings Initiative (GBI)
No ☐ Yes ☐ MRET Green Schools Initiative (GSI)

Name of the Generation Unit

- No ☐ Yes ☐ MRET Large On-site Renewable Initiative (LORI)
No ☐ Yes ☐ MRET Solar to Market Initiative (SMI)
No ☐ Yes ☐ MRET Special Opportunities Partnership Initiative (SOPI)
No ☐ Yes ☐ MRET Small Renewables Initiative (SRI)
No ☐ Yes ☐ State Revolving Fund (SRF) ARRA Project
No ☐ Yes ☐ ARRA-related Fed. funds (incl. EECBG projects) in excess of 67% of total installed costs.

***IF** you answered YES to any of the above, the Unit does **NOT** qualify for the Solar Carve-Out. Instead, select Solar Photovoltaic in Section II.3, and complete Section III.1b. If the application is for an Aggregation, then you can delete any disqualified systems from the Aggregation, correct your answer(s) above, and continue.*

***NOTE** that acceptance of any of the following does **NOT** disqualify the Unit:*

- (1) ARRA-related grant-in-lieu-of-an Investment Tax Credit (ITC),*
- (2) ARRA-related Federal funds totaling up to and including 67% of total installed costs,*
- (3) rebate from Commonwealth Solar II (for small projects)*
- (4) rebate from Commonwealth Solar Stimulus, or*
- (5) MRET support only for a feasibility study .*

Identify which, if any, of these types of funding has been accepted or is anticipated for the project:

PV Project Detail Form

After you complete all of the above in this sub-section, you must enter all technical details for a Solar Carve-Out application in a spreadsheet of DOER's design. The spreadsheet, called the PV Project Detail Form, is available at this [webpage](#). The same PV Project Detail Form must be completed both for an individual Solar PV system and for an Aggregation of Solar PV systems, each of which meets the eligibility requirements of the Solar Carve-Out. Instructions for completing the Form are in the first worksheet there.

Email the completed PV Project Detail Form to doer.srec@state.ma.us. Use as your email Subject "SQA PV Project Detail Form for [name of Generation Unit from sub-section II.1]."

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

Check only one of the numbered boxes in Section III. Under that one selected box, answer all questions, and provide all information that pertains to your answers.

Submit only the page(s) of Section III that pertain to the Generation Unit. Omit the other pages of III.

1b. ☐ **Solar photovoltaic**

If you chose MA Solar Carve-Out at III.1a on page 5, then do NOT provide information here. This sub-section is only for PV units that do NOT meet the eligibility criteria of the MA Solar Carve-Out, as summarized in III.1a and detailed in 225 CMR 14.05(4).

*If this Application is for an **Aggregation** of Solar PV systems, each of which meets the eligibility requirements of RPS Class I (but not of the Solar Carve-Out), then provide in an **ATTACHED** table the information required below, and reference such **ATTACHMENT** in the space below. Also include in that table the additional information required at the instruction for II.7 and at the first bullet of Appendix D.1. Also, you must complete and provide **both parts** of **Appendix D**.*

Equipment (make, type, model, size, quantity, etc., of module, array, inverter, etc.), **name of the installer** (with contact information), and **type of site:** _____

► *If applicable (see II.8), read and complete **Appendix A**, pertaining to **Capacity Obligation**.*

2. ☐ **Solar thermal electric energy**

Equipment and type of site: _____

► *If applicable (see II.8), read and complete **Appendix A**, pertaining to **Capacity Obligation**.*

3. ☐ **Wind energy**

Number of turbines: _____

MW capacity per turbine: _____

Make & model of turbine(s), and type of site: _____

► *If applicable (see II.8), read and complete **Appendix A**, pertaining to **Capacity Obligation**.*

4. ☐ **Geothermal energy**

Equipment and type of site: _____

► *Read and complete **Appendix A** of this Application, pertaining to **Capacity Obligation**.*

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

5. ☐ **Landfill methane gas**

- a. List all of the generators at this Generation Unit; and identify the type, nameplate capacity, and date of initial operation for each of them. If any of the generators previously operated at a different site, identify the location and initial operation at that site. _____

- b. Check one or the other of the following two boxes, and provide the required details:

- ☐ The Unit is located at or near the landfill from which the gas is collected, and that gas is conveyed from the landfill to the Unit **without** the use of a common carrier of natural gas. – If you check this box, then provide the name of the landfill and of the entity from which you purchase the gas, as well as the nature of your relationship with that entity.

- ☐ The Unit is **not** located at the landfill or landfills from which the gas is collected; the landfill(s) is/are located within the ISO New England Control Area or in a Control Area adjacent thereto (New York, Quebec, or New Brunswick); **and** the gas is conveyed to the Unit via the use of a common carrier of natural gas. – If you check this box, then provide the following:

- Identify by name and location all landfills from which the gas is or will be conveyed to the Unit using a common carrier of natural gas. _____

- Identify all entities with which you have contracted or will contract for supply and conveyance of the landfill methane gas. _____

- **ATTACH** copies of all current contracts for such supply and conveyance. **DOER** will require you to provide additional documentation in the future.

- c. Is the landfill methane gas being (or to be) used in the same Generation Unit as an ineligible fuel, such as natural gas, whether co-fired or as a blended fuel?

☐ No

☐ Yes – If you check this box, complete **Appendix B**.

- d. **Capacity Obligation**

► Read and complete **Appendix A** of this Application, pertaining to **Capacity Obligation**.

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

6. ☐ **Marine or Hydrokinetic**

Identify the type of energy and location, describe the technology, & calculate the Capacity Factor:

a. ☐ **Marine kinetic** – *Identify the type of energy, location, and technology.*

Type of energy

- ☐ Wave
☐ Current
☐ Tidal

Type and name of location

- ☐ Atlantic Ocean: _____
☐ Estuary: _____
☐ Other area [*identify*]: _____

Technology name and description: _____

b. ☐ **Freshwater Hydrokinetic, but not Hydroelectric Energy²**

Identify the type and enter the name of the Unit's location.

- ☐ River or stream: _____
☐ Lake: _____
☐ Human-made, open channel: _____
☐ Human-made, enclosed conduit: _____

Technology name and description: _____

c. ☐ **Ocean thermal**

Location: _____

Technology name – *ATTACH a description*]: _____

d. **Capacity Factor**

Enter the Capacity Factor of the Unit, expressed as a percentage (to one decimal place) of (a) the annual electricity output to (b) the potential output if the Unit, assuming for “potential output” that the Unit is able to operate 24/7 every day of the year at the full rated capacity of all turbines in the Unit minus any immediate parasitic load: _____.

ATTACH documentation of that figure, including all actual data and all assumptions, based on an average of the past five years of generation or, if less than five years operational data is available, whatever data is available and a detailed engineering estimate of a five-year average under normal conditions for the body of water where the Unit is or would be sited.

► *Read and complete **Appendix A** of this Application, pertaining to **Capacity Obligation**.*

² If you are uncertain as to whether this facility should be regarded as using Hydroelectric Energy or as using Hydrokinetic Energy, contact the RPS Program Manager before proceeding.

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

7. ☐ **Fuel cells using an Eligible RPS Class I Renewable Fuel**

a. **Technology of the Fuel Cell**

Name and describe the type, make, and model of the fuel cell(s). _____

b. **Fuel used in the Fuel Cell**

☐ **Eligible biomass fuel** – *Identify the fuel and the feedstock, if any, from which derived.*

☐ **Landfill methane** – *Identify the source of the fuel by landfill(s) name(s) and location(s).*

☐ **Hydrogen** derived from the following:

☐ **Eligible biomass fuel** – *Identify the fuel and the feedstock, if any, from which derived.* _____

☐ **Landfill methane** – *Identify the source(s) of the fuel by name and location.*

☐ **Water** – *Provide information about where and by what technology the hydrogen was derived from water.*

▪ *Identify technology type used:* _____

▪ *If the process uses electricity, identify the electricity source – which **must** be a Renewable Generation Unit – by name, location, NEPOOL GIS number (if any), and (if applicable) RPS qualification status and ID#:* _____

▪ ***NOTE*** that if the Generation Unit providing power for hydrogen derivation is qualified for RPS (or the equivalent in another state), the Owner or Operator of the Unit must retire rather than sell the quantity of RECs representing the portion of the electrical energy output of the Unit that is used to derive from water the hydrogen used in the fuel cell.

c. **Capacity Obligation**

► *Read and complete Appendix A of this Application, pertaining to **Capacity Obligation**.*

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

8. ☐ Hydroelectric Energy

a. General eligibility:

Check both of the following boxes, by which you acknowledge two of the general eligibility criteria for Hydroelectric in 225 CMR 14.05(1)(a)6:

- ☐ The Generation Unit does not involve pumped storage of water or any dam or water diversion structure constructed after December 31, 1997.
- ☐ The Generation Unit does not generate Hydrokinetic Energy. – *If you are uncertain as to whether this facility should be regarded as using Hydroelectric Energy or as using Hydrokinetic Energy, contact the RPS Program Manager before proceeding.*

b. General type of project:

Check only one of these two boxes, and provide additional information under your choice:

- ☐ This application for RPS Class I qualification pertains to a Generation Unit whose Commercial Operation Date is after December 31, 1997, and whose total nameplate capacity does not exceed 25 MW.

ATTACH a description of the Generation Unit, a project timeline if not yet completed, and a schematic diagram, including other structures and equipment (if any) at the same site.

- ☐ This application for RPS Class I qualification pertains to a project implemented after December 31, 1997, for incremental new energy from increased capacity or efficiency improvements at an existing hydroelectric facility.

If you checked this box, then check one or both of the following two boxes and provide the information described below the boxes:

- ☐ The Unit's electrical energy output has increased or will increase as a consequence of the installation after December 31, 1997, of additional capacity that totals no more than 25 MW.
- ☐ The Unit's electrical energy output has increased or will increase as a consequence of efficiency improvement(s) implemented after December 31, 1997, or not yet implemented, and the increased output is equivalent to a capacity increase that totals no more than 25 MW.

ATTACH a description of the Generation Unit and of the capacity and/or efficiency project(s), a statement of the current status of the project installation or implementation, a project timeline if not yet completed, and a schematic diagram, including all preexisting structures and equipment at the same site.

*Check the first box in **Appendix F** and ATTACH the information required there.*

c. Capacity Factor of the Unit:

Enter the Capacity Factor of the Unit, as a percentage (to one decimal place) of annual electricity output to potential output if the Unit were to operate 8,760 hours per year at the rated capacity of all turbines in the Unit: _____.

ATTACH documentation of that figure, including all actual data and all assumptions, based on an average of the past five years of generation or, if less than five years operational data is available, whatever data is available and a detailed engineering estimate of a five-year average.

***IF** the Capacity Factor is 50% or more, then the Unit is regarded as a Non-intermittent Generation Unit for the purposes of Appendix A.*

- *Read and complete **Appendix A** of this Application, pertaining to **Capacity Obligation**.*

Hydroelectric details are continued on the next page.

Name of the Generation Unit

8. ☐ **Hydroelectric Energy**

d. **FERC status of the Unit:**

Enter the date and identification number of the **later** of the following.

- the Unit's application for a FERC license: _____

- the Unit's FERC license: _____

*ATTACH an electronic copy of the FERC license **or** (preferably) enter here a hyperlink to the license on the Internet:* _____

e. **LIHI status of the Unit:**

Enter the date and identification number of the **later** of the following:

- the Unit's application for a certification from the Low Impact Hydropower Institute (LIHI): _____

- the Unit's LIHI certification: _____

ATTACH an electronic copy of one or the other of the following [check one]:

- ☐ LIHI certification, or
- ☐ LIHI's denial of certification and statement of its reasons for the denial

Enter here (if available) a hyperlink to that certification or denial on the Internet: _____

*ATTACH a list all of the Relevant Hydroelectric Agencies to which notice regarding the LIHI application was sent, **including** the contact person, phone number, and email address for each; the date(s) of such notice(s); indication of which agencies (if any) commented on the application, and the date of each such comment.*

ATTACH a copy of such notice of service, or provide here a hyperlink to the notice: _____

If LIHI certification was denied, ATTACH a narrative statement and ATTACH any directly supportive documentation as to the reasons why, the LIHI denial notwithstanding, DOER should grant the Unit a Statement of Qualification.

f. **Notice of RPS Application:**

*ATTACH a list all of the Relevant Hydroelectric Agencies to which notice regarding this RPS application has been or is being sent, **including** the contact person, phone number, and email address for each, and the date of such notice(s).*

ATTACH a copy of such notice of service.

Name of the Generation Unit

SECTION III. GENERATION UNIT TECHNICAL DETAILS

9. ☐ **Biomass, using a low-emission, advanced biomass power conversion technology**

a. **Technology**

Check all that apply, and identify the sub-type, make, model, and year of manufacture.

☐ Steam boiler: _____

☐ Stoker: _____

☐ Fluidized-bed: _____

☐ Gas or Combustion turbine: _____

☐ Combined cycle: _____

☐ Internal combustion engine: _____

☐ Anaerobic digester: _____

☐ Other gasifier: _____

☐ Other: _____

b. **Fuel**

Check all that apply and provide additional details.

☐ Solid woody biomass fuel from forestry and forest products industry. – Describe fuels and types of sources. _____

Biomass details are continued on the next page.

Name of the Generation Unit

9. ☐ **Biomass, using a low-emission, advanced biomass power conversion technology**

b. **Fuel (continued)**

- ☐ Solid fuel from food, vegetative waste, energy crops, animal or agricultural waste materials or by-products. – *Identify types and sources.* _____
- _____
- ☐ Anaerobic digester gas or other biogas. – *List feedstock(s) and their sources.* _____
- _____
- ☐ Eligible Liquid Biofuel – *Identify feedstock(s) and ATTACH sufficient information to demonstrate that this fuel meets the definition of an Eligible Liquid Biofuel in 225 CMR 14.02, and any Guidelines issued pursuant thereto.* _____
- _____
- ☐ Algae – *Describe the form in which used to generate electricity, and ATTACH a description of where and how the fuel is derived from live algae.* _____
- ☐ Co-firing an Eligible Biomass Fuel, as defined in 225 CMR 14.02, with a fuel that is not eligible, or using a Blended Fuel, as defined in 225 CMR 14.02.. – *ATTACH the information required in Appendix B.*

c. **Valid Air Permit**

Check only one of the following three boxes, and provide additional details.

- ☐ The Unit has a Valid Air Permit or an equivalent authorization from [name of agency] _____, dated _____, and [select one of the following]
- ☐ the Permit is provided electronically.
- ☐ a hyperlink to the Permit is provided here: _____.
- ☐ The Unit requires, but does not yet have, a Valid Air Permit or an equivalent authorization from this agency: _____.
- State your plan and timetable for obtaining the Permit.* _____
- _____
- ☐ The Unit does not require a Valid Air Permit or an equivalent authorization.
- Explain why such Permit or equivalent authorization is not required for the Unit.* _____
- _____

d. **Air Emissions**

Provide the required information.

- NOx emission rate in pounds per MBtu: _____
- PM emission rate in pounds per MBtu: _____
- Check the appropriate box:
 - ☐ Those emission rates are the limits in the Unit's Valid Air Permit or equivalent.
 - ☐ Those emission rates are the Unit's highest monthly average emission limits from the following time period: _____.
 - ☐ Those are modeled emission rates for the Unit, and detailed calculations are ATTACHED.

e. **Capacity Obligation**

- *Read and complete Appendix A of this Application, pertaining to Capacity Obligation.*

Name of the Generation Unit

SECTION IV. CERTIFICATION

Provide documentation that demonstrates the authority of the Authorized Representative indicated in section I.3 to certify and submit this Application. The documentation must follow the appropriate instructions below.

Corporations

If the Owner or Operator is a corporation, the Authorized Representative shall provide either:

- a. a board of directors vote granting authority to the Authorized Representative to execute the Statement of Qualification Application; or*
- b. a certification from the Corporate Clerk or Secretary of the Corporation that the Authorized Representative is authorized to execute the Statement of Qualification Application, or is otherwise authorized to legally bind the corporation in like matters.*

Individuals

If the Owner or Operator is a sole proprietorship or an individual, that proprietor or individual shall complete and attach APPENDIX G or a similar form of certification from the Owner or Operator, duly notarized, that certifies that the Authorized Representative has authority to execute the Statement of Qualification Application.

Other Non-Corporate Entities

(Proprietorships, Partnerships, Cooperatives, Government Agencies, etc.)

If the Owner or Operator is not an individual or a corporation, it shall complete and attach APPENDIX H or execute a comparable, duly notarized, resolution of authorization indicating that the Authorized Representative has authority to execute the Statement of Qualification Application or otherwise to legally bind the non-corporate entity in like matters.

I hereby certify, under pains and penalties of perjury, that I have personally examined and am familiar with the information submitted herein, and, based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties, both civil and criminal, for submitting false information, including possible fines and de-certification of a Statement of Qualification. My signature below certifies all information submitted in this Statement of Qualification Application. The Statement of Qualification Application includes the application form and all required appendices and attachments.

Signature of Authorized Representative

Date

Name of the Generation Unit

Appendix A Capacity Obligation

This Appendix is required of all Units EXCEPT for those that are MA Solar Carve-Out Units or are Net-Metered in MA pursuant to 220 CMR 18.00, as identified in SQA Section II.8. MA Solar Carve-Out Units and MA Net Metered Units OMIT this Appendix.

1. ***NOTE the following provision of the RPS Class I Regulation in 225 CMR 14.05(1)(e)(1) that applies to all Generation Units for which application is made to qualify as RPS Class I Renewable Generation Units – except for those that are Net Metered pursuant to 220 CMR 18.00. This provision will be reflected in all applicable new Class I Statements of Qualification.***

“The amount of the generation capacity of the Generation Unit whose electrical energy output is claimed as RPS Class I Renewable Generation shall not be committed to any Control Area other than the ISO-NE Control Area unless such Generation Unit has entered into a Capacity Obligation in another Control Area before the start of the first available compliance year for the ISO-NE Forward Capacity Market, in which case this subsection shall apply upon the expiration of that Capacity Obligation.”

IF applicable, answer this question: Is any amount of the total generation capacity of the Generation Unit for which this Application requests qualification as RPS Class I Renewable Generation already committed to any Control Area other than the ISO-NE Control Area? *[Check one of the three below.]*

- ☐ Yes, _____ MW are already committed to the _____ Control Area, as of *[date]* _____ and expiring as of *[date]* _____.
- ☐ No
- ☐ **Not Applicable** because the Generation Unit is a Solar Carve-Out Unit or is Net-metering qualified.

2. ***NOTE the following provision of the RPS Class I Regulation in 225 CMR 14.05(1)(e)(2) that applies only to Non-intermittent Generation Units, which are listed or defined in the two bullets below. This provision will be reflected in all new Statements of Qualification for such Units:***

“The Generation Unit Owner or Operator of a Non-intermittent Generation Unit shall commit to the ISO-NE Control Area the amount of the capacity of that Unit claimed as RPS Class I Renewable Generation by submitting by the applicable deadline a show of intent for the ISO-NE Forward Capacity Auction that is the earliest available for the Unit after the Owner or Operator has submitted a Statement of Qualification Application. The Owner or Operator of such unit must also clear the Forward Capacity Auction for which it has qualified, even if it must participate as a price taker.”

- *Assumed to be Non-intermittent: all Biomass, Landfill Methane, Fuel Cell, & Geothermal Units.*
- *Defined as Non-intermittent IF Capacity Factor is calculated at 50% or more: Units generating electricity from Marine or Freshwater Hydrokinetic, Ocean Thermal, or Hydroelectric energy.*

IF applicable, answer this question: Is the amount of the total generation capacity of the Generation Unit for which this Application requests qualification as RPS Class I Renewable Generation already participating in the ISO New England Forward Capacity Market? *[Check one of the three boxes below.]*

- ☐ Yes, _____ MW are committed to the ISO New England Forward Capacity Market (FCM) by means of the following action *[identify the ISO-NE Forward Capacity Auction for which a show of intent or bid (indicate which) was submitted]*: _____, with the following result:

- ☐ No – *Explain, and state your intentions re the FCM.* _____

- ☐ **Not Applicable** because the Generation Unit is **not** a Non-intermittent Unit.

Name of the Generation Unit

Appendix B

Co-firing and Blended Fuels Waiver

Read all four sections of this Appendix and attach all required information.

1. **NOTE** that the Owner or Operator of the Generation Unit, or a duly-authorized agent thereof, is obligated to report to the NEPOOL GIS Administrator the quantity of electrical energy output attributable to each fuel each month pursuant to the NEPOOL GIS Operating Rules.

2. **Fuel Supply Plan**

ATTACH to this Application a Fuel Supply Plan that includes the following information:

- a. Name of each and every fuel likely to be co-fired or used in a fuel blend;
- b. Likely proportion of each fuel in the mix or in the fuel blend;
- c. Likely net heat content of each, including any expected seasonal variations, such as those due to moisture content or wood species; and
- d. Seasonal variation, if any, of the fuel mix or blend.

If the Generation Unit is not yet in operation, use your current assumptions about the fuel mix or blend and its characteristics.

3. **Calculation of the RPS Class I Qualified portion of electrical energy output**

For a Generation Unit that co-fires an Eligible New Renewable Fuel with an ineligible fuel (including all fossil fuels), whether as a mixture of solid fuels or a blend of liquid or of gaseous fuels, only the portion of the total electrical energy output attributable to the Eligible New Renewable Fuel will qualify as New Renewable Generation in a given time period. In order to determine what that portion will be, **ATTACH** the following with this Application:

- a. Data and calculations documenting, pursuant to 225 CMR 14.05(3)(a), the ratio of the net heat content of the Eligible Renewable Fuel consumed to the net heat content of all fuel consumed during an average month. If you anticipate substantial seasonal differences, then show this data for an average month in different seasons.
- b. A description of the procedures that are (or will be) used by the Owner or Operator to obtain the data listed in bullet “a” above. Please also include a description of all quality control measures used to verify the uniformity of the heat content of the Eligible New Renewable Fuel or to account for variations in the heat content of the Eligible New Renewable Fuel used in the Generation Unit. If the Generation Unit is not yet in operation, use your current assumptions about the fuel mix or blend and its characteristics. (The Unit will not be held to these numbers in its actual operations; rather, this information is to demonstrate the applicant’s methodology.)

4. If the Generation Unit is or will be using an Eligible Biomass Fuel and is not located in Massachusetts, **ATTACH** documentation to demonstrate to the satisfaction of DOER that the emissions are or will be consistent with the rates prescribed by the MassDEP for comparably fueled Generation Units located in Massachusetts. Documentation may refer to the attached Valid Air Permit, or it may consist of vendor guarantees or a detailed engineering analysis.

NOTE that (pursuant to 225 CMR 14.05(3)(c)), if the Generation Unit is using an Eligible Biomass Fuel and is not located in Massachusetts, the Generation Unit Owner or Operator will, if required by the Department, retain at its own expense a third-party consultant deemed satisfactory to the Department, to provide the Department and the MassDEP with assistance in the determination as to whether the emission rates for the entire Generation Unit either are or will be consistent with the rates prescribed by the MassDEP for comparably fueled Generation Units located in Massachusetts

Name of the Generation Unit

APPENDIX C

SPECIAL PROVISIONS FOR A GENERATION UNIT LOCATED IN A CONTROL AREA ADJACENT TO THE ISO-NE CONTROL AREA

NOTE all provisions of the RPS Class I Regulation in 225 CMR 14.05(5), including the following:

“(e) The quantity of electrical energy output from an RPS Class I Renewable Generation Unit outside the ISO-NE Control Area that can qualify as RPS Class I Renewable Generation at the NEPOOL GIS during each hour is limited to the lesser of the RPS Class I Renewable Generation actually produced by the Unit or the RPS Class I Renewable Generation actually scheduled and delivered into the ISO-NE Control Area.”

Read and complete all four sections of this Appendix.

1. Documentation of Import Legal Obligations

a. Check one of the following two boxes:

- ☐ I have provided as an attachment, the documentation described below.
- ☐ I will provide, as soon as it becomes available, the documentation described below.

Documentation, satisfactory to DOER, of a contract or other legally enforceable obligation(s) (“Legal Obligation”) that is executed between the Generation Unit Owner or Operator and an electrical energy purchaser located in the ISO-NE Control Area for delivery of the Unit's electrical energy to the ISO-NE Control Area. Such documentation shall include provisions for obtaining associated transmission rights for delivery of the Unit's electrical energy from the Unit to the ISO-NE Control Area.

b. Check the following box:

- ☐ The Generation Unit Owner or Operator shall pay for evaluation and verification of the provisions of the above-described documentation by an independent party that is engaged by or approved by the Department.

2. Quarterly Import Documentation

Check the following box:

- ☐ The Generation Unit Owner or Operator shall provide to the NEPOOL GIS administrator each calendar quarter the following documentation, satisfactory to DOER, that:
- the electrical energy delivered pursuant to the Legal Obligation was settled in the ISO-NE Settlement Market System;
 - the Generation Unit produced, during each hour of the applicable month, the amount of MWhs claimed, as verified by the NEPOOL GIS administrator; if the originating Control Area employs a Generation Information System that is comparable to the NEPOOL GIS, information from that system may be used to support such documentation;
 - the electrical energy delivered under the Legal Obligation received a NERC Tag confirming transmission from the adjacent Control Area to the ISO-NE Control Area; and
 - the RPS Class I Renewable Generation Attributes have not been and nor will be, sold, retired, claimed, or represented as part of Energy sold elsewhere or used to satisfy obligations in another jurisdiction, using the “Imported Unit Energy Seller Certification” form set forth in the Appendix 2.7A of the NEPOOL GIS Operating Rules, as required in Rule 2.7(c)(z) of the NEPOOL GIS Operating Rules or any successor rule.

Name of the Generation Unit

3. Annual Certification

Check the following box:

- ☐ I affirm that the Generation Unit Owner or Operator shall provide to DOER by July 1st of each year the following certification:³

I hereby certify that I have not otherwise sold, retired, claimed, used or represented as part of electrical energy output or sales, or used to satisfy obligations, in jurisdictions other than Massachusetts, the RPS Class I Renewable Generation Attributes associated with the electrical energy output during the year _____ of the Generation Unit named _____ that I transferred to the electrical energy purchaser named _____ that is located in the ISO-NE Control Area.

4. Attestation

Check the following box:

- ☐ I affirm that the Generation Unit Owner or Operator shall provide to DOER an attestation in a form to be provided by DOER that it will not itself or through any affiliate or other contracted party, engage in the process of importing RPS Class I Renewable Generation into the ISO-NE Control Area for the creation of RPS Class I Renewable GIS Certificates, and exporting that energy or a similar quantity of other energy out of the ISO-NE Control Area during the same hour.

³ This certification does not hold the Generation Unit Owner, Operator, or Authorized Agent liable if a non-affiliated entity in the ISO New England Control Area sells, retires, claims, uses or represents as part of electrical energy output or sales, or uses to satisfy obligations, in jurisdictions other than Massachusetts, these RPS Class I Renewable Generation Attributes. Retail Electricity Suppliers will sign their own, comparable certifications when they submit their Annual RPS Compliance Filings to DOER.

Name of the Generation Unit

APPENDIX D

SPECIAL PROVISIONS FOR GENERATION UNITS WHOSE OUTPUT IS *NOT* MONITORED & REPORTED BY ISO-NE, INCLUDING ALL AGGREGATIONS, ALL BEHIND-THE-METER & OFF-GRID UNITS, AND SOME OTHERS

Applicants for Aggregations must complete both sections of this Appendix.

Applicants for other Units whose output is not monitored and reported to the NEPOOL GIS by ISO-New England must complete only the second section, pursuant to 225 CMR 14.05(1)(c).

The above notwithstanding, Solar Carve-Out Applicants will omit the second section, per Section II.6.

1. Aggregation information and acknowledgements

*Acknowledge, by checking every one of the boxes below, that this Application for an **Aggregation** of Generation Units that are located behind the customer meter or that are Off-grid Generation Units, each of which could independently meet the relevant requirements of 225 CMR 14.05, is eligible to receive a single Statement of Qualification and to be treated as a single **Qualified Renewable Generation Unit**, as provided in the RPS Class I provisions in 225 CMR 14.05(6). In addition, enter the Authorized Agent's name where indicated, and ATTACH any information required.*

- ☐ Each Generation Unit in the Aggregation does or will use the same fuel, energy resource or technology type as all other Units in the Aggregation, which is the one indicated in the body of this Application.

ATTACH a list of all Units in the Aggregation, and for each Unit, provide the name of the Owner, the street address, the Commercial Operation Date, and the nameplate capacity (indicate whether kW or MW, and use DC for PV units).

- ☐ Each of the Owners or Operators of Generation Units within the Aggregation has or will enter into a written agreement with a person or entity that serves as the Authorized Agent for the Aggregation in all dealings with the Department and with the NEPOOL GIS, and such agreement must include procedures by which the electrical energy output of each Unit shall be monitored and reported to the NEPOOL GIS by an Independent Verifier (a.k.a. Third Party Meter Reader), pursuant to the provisions in 225 CMR 14.05(1)(c) and/or 14.05(6)(d).

ATTACH a copy of the agreement that satisfies the foregoing requirements and that authorizes the Authorized Agent to act on behalf of the Owner of each Unit, as well as a copy of the signed signature page for every such agreement.

- ☐ I, _____, the Authorized Agent of the Aggregation shall provide to the Department updates at appropriate intervals, but, at a minimum, an update due at the Department no later than June 1 of each year. Such updates shall include the names, locations, and nameplate capacities (DC if for PV) of all Units in the Aggregation, including notice of any additions, deletions, or capacity changes from prior lists.

- ☐ I, _____, the Authorized Agent of the Aggregation have established, or will establish, and will maintain a Generation Asset account at the NEPOOL GIS under the NEPOOL GIS Operating Rules, including all provisions for Non-NEPOOL Generator Representatives, as that term is defined in 2.1(a)(ii) or 2.1(a)(vi) of those Rules, or any successor rules.

- ☐ I, _____, the Authorized Agent of the Aggregation shall provide to the Department by July 1st of each year the following certification:

I hereby certify that I have not otherwise sold, retired, claimed, used or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than

Name of the Generation Unit

Massachusetts, the RPS Class I Renewable Generation Attributes associated with the electrical energy output of the Aggregation during the year _____.

- ☐ The electrical energy output of each of the Generation Units in the Aggregation will be individually monitored and recorded, and the aggregated totals for the Aggregation will be reported to the NEPOOL GIS, by an independent Third Party Meter Reader as defined in Rule 2.5(j) of the NEPOOL GIS Operating Rules, or any successor rule, and approved by the Department.

2. Independent Verifier (a.k.a. Independent Third Party Meter Reader)

*This section **must** be completed by any Applicant whose Unit's electrical energy output is not monitored and reported to the NEPOOL GIS by ISO New England, including but not limited to Aggregations, Units located behind a retail electricity customer's meter, and Off-grid Units. However, MA Solar Carry-Out Applicants **OMIT** this section (see Section II.6).*

- a. Enter the Name of the Independent Verifier: _____
- b. Provide in an **ATTACHMENT** the following information:
- Name of entity & of its primary contact person, contact information (street and email addresses, phone number, URL), and qualifications of the Independent Verifier. Qualifications shall include any information the Applicant believes will assist the Department in determining that the Independent Verifier will accurately and efficiently carry out its duties. After receipt of the application, the Department may require additional evidence of qualifications.
 - A declaration of any and all business or financial relations between Aggregation Authorized Agent (or the Applicant) and the Independent Verifier, which the Department will use to evaluate the independence of the Independent Verifier.⁴
 - A statement indicating under what circumstances the Independent Verifier would not be considered sufficiently independent of an individual Generation Unit, and that either that any Generation Unit not meeting this independence test would not be allowed to participate in the Aggregation (in the case of an Aggregation) or that an alternate Independent Verifier acceptable to the Department would be engaged for such Unit;
 - A description of how the Independent Verifier will be compensated for its services by the Aggregator (or the Applicant). In no instances will an Aggregation (or the Generation Unit) be qualified for RPS Class I in which the Independent Verifier is compensated in a manner linked to the number of NEPOOL GIS Certificates created by the Aggregation (or the Generation Unit); and
 - A confirmation and a description of how frequently – but no less than quarterly for Aggregations and no less than annually for non-aggregated Generation Units – the Independent Verifier will directly enter into the NEPOOL GIS the quantity of energy production in the applicable time period from the Aggregation (or the Generation Unit). The entry of generation data by the Independent Verifier must be through an interface designated for this purpose by the NEPOOL GIS and in accordance with NEPOOL GIS Operating Rules applicable to Independent Verifiers, and to which the Aggregation or the non-aggregated Generation Unit Owner shall not have access⁵.

⁴ Reasons for ruling that an Independent Verifier is not sufficiently independent include, but are not limited to: i) If one entity owns, directly or indirectly, or if a natural person so owns, 10% or more of the voting stock or other equity interest in the other entity; ii) If 10% or more of the voting stock or other equity interests in both entities are owned, directly or indirectly, by the same entity or a natural person; or iii) If one entity is a natural person, and such entity or a member of such entity's immediate family is an officer, director, partner, employee or representative of the other entity.

⁵ Such generation data shall **NOT** include any generation data from previous time periods, except as provided as follows. Output of less than one MWh by any single Generation Unit within the aggregation may be applied to the entire aggregation's generation and generation of the aggregation less than one full MWh may be applied to the subsequent quarter in accordance with NEPOOL GIS Operating Rules.

Name of the Generation Unit

Appendix F

Special Provisions for Incremental Generation and for Relocated, Repowered, and Replacement Generation Units

Select the appropriate option, and provide the information required for the selected option.

☐ **Incremental Generation.**

A Generation Unit with a Commercial Operation Date on or before December 31, 1997, for which the Applicant can demonstrate an actual or projected future increase in electrical energy output that is attributable to incremental new generating capacity or efficiency improvements installed or implemented after December 31, 1997, using equipment that was not utilized in any Renewable Generation Unit within the ISO-NE Control Area or within Control Areas adjacent thereto on or before December 31, 1997, and provided that the entire Unit meets all other relevant provisions in 225 CMR 14.05.

The **portion** of the total electrical energy output of the Generation Unit that qualifies as RPS Class I Renewable Generation in a given calendar year **shall be limited to the portion attributable to** incremental new generating capacity or efficiency improvements installed or implemented after December 31, 1997, using equipment that was not utilized in any Renewable Generation Unit within the ISO-NE Control Area or within Control Areas adjacent thereto on or before December 31, 1997.

2. **Description of the incremental new generating capacity or efficiency improvements:**

*ATTACH a **description** of the incremental new generating capacity or efficiency improvements installed or implemented after December 31, 1997, including identification of the location(s), if any, where any newly installed equipment was used on or before December 31, 1997. Also, describe the Unit's Power Conversion Technology prior to the actual or planned changes. You may refer to the description in an attachment provided for another section of the Application.*

3. **Analysis for determination of the RPS Class I Renewable Generation:**

ATTACH an analysis of the incremental new electrical energy output, as follows:

a. **Hydroelectric Generation Units:**

*In the case of a **Hydroelectric** project, ATTACH, if applicable, the Order by which the Federal Energy Regulatory Agency (FERC) has certified the "historic average annual hydropower production" and the "percentage of average annual hydropower production at the facility attributable to the efficiency improvements or additions of capacity" for the purposes of obtaining federal renewable energy production tax credits for efficiency improvements or additions of capacity at existing facilities pursuant to Internal Revenue Service Code section 45.*

- i. *If FERC certification has been requested but not yet received, provide an electronic copy of the request, including the analysis of "historic average annual hydropower production" and the "percentage of average annual hydropower production at the facility attributable to the efficiency improvements or additions of capacity." Any Statement of Qualification granted to a project in advance of a positive FERC Order will require documentation of such Order as a precondition of DOER encoding at the NEPOOL GIS the qualification of the portion of the Unit's electrical energy output qualified as RPS Class I Renewable Generation.*
- ii. *If FERC certification is not applicable or has not been sought, explain the circumstance, and provide an analysis consistent with and conforming to the instructions issued by FERC for requesting such certification,⁶ supported by registered Professional Civil Engineer's report.*

b. **Non-Hydroelectric, Intermittent Generation Units:** *Contact the RPS Program Manager.*

⁶ Instructions for Requesting Certification of Incremental Hydropower Production Pursuant to the Energy Policy Act of 2005, as updated & posted on FERC's website March 2007 (<http://www.ferc.gov/industries/hydropower/gen-info/comp-admin/credit-cert.pdf>), or any successor document.

Name of the Generation Unit

c. Non-intermittent Generation Units:

*In the case of a **Non-intermittent Generation Unit**, such as Biomass or Landfill Methane, **ATTACH** the following information and calculation: First, state and document (X) the rated capacity of the Unit **before** implementing the post-1997 incremental new generating capacity or efficiency improvements, and (Y) the rated capacity of the Unit **after** implementing the post-1997 incremental new generating capacity or efficiency improvements. Then, subtract X from Y, and divide the result by X. That is: $(Y-X)/X$. DOER may, at its discretion, require additional documentation and engineering analysis.*

☐ **Relocated Generation Unit.**

A Generation Unit whose Power Conversion Technology was used on or before December 31, 1997, to generate electrical energy outside of both the ISO-NE Control Area and Control Areas adjacent thereto, and is relocated into one of those Control Areas after December 31, 1997, provided that any components of the Power Conversion Technology that were not used outside of those Control Areas were first used in a Generation Unit after December 31, 1997, and provided that the Unit meets all other relevant provisions in 225 CMR 14.05.

- ***ATTACH** a description of the Unit, including the location(s) and time period(s) of operation for all components of the Unit's Power Conversion Technology, and an identification of the fuels (if any) used at those places and times.*

☐ **Repowered Generation Unit.**

A Generation Unit whose Commercial Operation Date at its current location was on or before December 31, 1997, that did not utilize an Eligible RPS Class I Renewable Fuel at any time on or before that date, and that meets all relevant provisions in 225 CMR 14.05.

- ***ATTACH** (a) a list of all of the fuels used at this Unit during the entire operation of the Unit up to and including December 31, 1997, and the periods during which they were used; and (b) the technical changes (if any) that were made in order to repower the Unit.*
- ***NOTE:** If this Unit did not utilize an Eligible RPS Class I Renewable Fuel (for example, a fossil fuel) prior to December 31, 1997, and now uses or proposes to use an Eligible **Biomass Fuel**, the Unit must meet the RPS Class I eligibility criteria in 225 CMR 14.05(1)(a)7 for "Low-emission, advanced biomass conversion technologies using an Eligible Biomass Fuel," including any referenced Guidelines for that type of Unit.*

☐ **Replacement Generation Unit.**

A Generation Unit that replaces a mothballed or decommissioned Generation Unit that had operated on the same site on or before December 31, 1997, provided that (a) the entire Power Conversion Technology of the existing Unit is replaced with equipment manufactured after December 31, 1997; (b) the Unit being replaced has not been in commercial operation for at least five years prior to submission of the Statement of Qualification Application; and (c) the Replacement Generation Unit meets all other relevant provisions in 225 CMR 14.05 .

1. ***ATTACH** a description of the Unit that occupied this site prior to the Unit's replacement, including the technology and fuels used and their dates, the date that the Unit was mothballed or decommissioned, and the reason(s) for that action.*
2. ***ATTACH** documentation of such mothballing or decommissioning.*
3. ***ATTACH** a description of the Unit that has replaced or will replace the mothballed or decommissioned Unit, including identification and manufacturing date of all components of the Replacement Generation Unit's Power Conversion Technology.*
4. ***ATTACH** documentation of the date of manufacture of all components of the Replacement Generation Unit's Power Conversion Technology.*

Name of the Generation Unit

APPENDIX G
CERTIFICATION OF THE AUTHORIZED REPRESENTATIVE
WHEN THE OWNER OR OPERATOR IS AN INDIVIDUAL

I, _____ *[print name]*, as Owner or Operator of the
Generation Unit named in the Statement of Qualification Application to which this
Certification is appended, under the pains and penalties of perjury, hereby certify that
_____ is authorized to execute said Application.

[signature]

[date]

[title]

[TO BE COMPLETED BY NOTARY]

I, _____
as a notary public, certify that I witnessed the signature of the above named
_____, and that said individual verified
his or her identity to me on this date: _____, 20____.

[signature]

My commission expires on: _____

NOTARY SEAL HERE:

Name of the Generation Unit

APPENDIX H
CERTIFICATION OF THE AUTHORIZED REPRESENTATIVE
WHEN THE OWNER OR OPERATOR IS A NON-CORPORATE ENTITY
OTHER THAN AN INDIVIDUAL

RESOLUTION OF AUTHORIZATION

Resolved: that _____, named as
Authorized Representative in the Statement of Qualification Application to which this Certification
is appended, is authorized to execute said Application on behalf of
_____, the Owner or Operator of the
Generation Unit named in said Application.

[signature]

[date]

[name and title]

[TO BE COMPLETED BY NOTARY]

I, _____ as a notary public, certify that I
witnessed the signature of the above named _____, and
that said person stated that he or she is authorized to execute this resolution, and that the individual
verified his or her identity to me, on this date: _____, 20__.

[signature]

My commission expires on: _____

NOTARY SEAL HERE: